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Titolo	Optimum Cooling of Data Centers [[electronic resource]] : Application of Risk Assessment and Mitigation Techniques // by Jun Dai, Michael M. Ohadi, Diganta Das, Michael G. Pecht
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ISBN	1-4614-5602-9
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Descrizione fisica	1 online resource (194 p.)
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Soggetti	Buildings—Design and construction Building Construction Engineering, Architectural Electrical engineering Computer software—Reusability Building Construction and Design Communications Engineering, Networks Performance and Reliability
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Overview of Telecom Industry and Data Centers -- Cooling Methods to Improve Energy Efficiency in Telecom Industry and Data Centers -- Free Air Cooling -- Standards for Telecom Equipment and Data Centers -- Risks of Free Air Cooling -- Steps to Assess Parts for use under Free Air Cooling Condition -- Guidelines for Part Reliability Assessment -- Introduction to PHM -- Development of Sub-system and System for Free Air Cooling -- Future Trends.
Sommario/riassunto	This book provides data center designers and operators with methods by which to assess and mitigate the risks associated with utilization of optimum cooling solutions. The goal is to provide readers with sufficient knowledge to implement measures such as free air cooling or direct liquid immersion cooling properly, or combination of existing and emerging cooling technologies in data centers, base stations, and

server farms. This book also: Discusses various telecommunication infrastructures, with an emphasis on data centers and base stations
Covers the most commonly known energy and power management techniques, as well as emerging cooling solutions for data centers
Describes the risks to the electronic equipment fitted in these installations and the methods of risk mitigation Devotes a particular focus to an up-to-date review of the emerging cooling methods (such as free air cooling and direct liquid immersion cooling) and tools and best practices for designers, technology developers, installation operators, and owners Informs installation designers and manufacturers of the benefits and limitations of the most common existing and emerging cooling methods Optimum Cooling of Data Centers: Application of Risk Assessment and Mitigation Techniques is an ideal book for researchers and engineers interested in design, manufacturing, and optimum operation of cooling solutions for telecom and other mission-critical infrastructures.
